

**SECONDARY TEACHING EMPHASIS -- BACHELOR OF SCIENCE IN BIOLOGY (2007-2008 Catalog)**

Name \_\_\_\_\_ Student Number W \_\_\_\_\_

<b>Supporting courses: 37 credits required.</b>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Chem 121 – General Chemistry I (5 cr)			
Chem 122 – General Chemistry II (5 cr)			
Chem 123 – General Chemistry III (4 cr)			
<b>Or</b> Honors Chemistry 125, 126, 225 (15 cr) [see #2 on the back]			
Chem 351 – Organic Chemistry I (4 cr)			
Chem 352 – Organic Chemistry II (4 cr)			
Chem 353 – Organic Chemistry III (3 cr) [recommended]			
Chem 354 –Organic Chemistry Lab I (2 cr) [recommended]			
Phys 114 – Physics I (5 cr)			
Phys 115 – Physics II (5 cr)			
*Phys 116 – Physics III (5 cr) [recommended]			
<b>Or</b> Yr of Physics with Calculus (15 cr) [see #2 on the back]			
Math 124 – Calculus I (5 cr)			
Math 125 – Calculus II (5 cr) [recommended]			
*Geol 211—Physical Geology (5 cr) [recommended]			
*Geol 212 – Historical Geology (5 cr) [recommended]			
*Astr 315 – General Astronomy (4 cr) [recommended]			
<b>Supporting Courses Subtotal</b>			

\*To receive a Science endorsement in addition to the courses listed for a Biology endorsement

**53 Total Basic, Breadth, Depth, Elective credits to complete this major**

<b>Basic Requirements: 14 credits required.</b>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 204 – Evolution, Ecology, & Biodiversity (4 cr)			
Biol 205 – Cellular & Molecular Biology (5 cr)			
Biol 206 – Organismal Biology (5 cr)			
<b>Basic Courses Subtotal</b>			
<b>Breadth Requirements: 19-20 credits required</b>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 321 – Genetics (4 cr)			
Biol 323 – Cell & Molecular Biology (4 cr)			
Biol 325 – Ecology (3 cr)			
Biol 340 – Biometrics (5 cr) or Math 240 -- Statistics (4 cr)			
Biol 432 –Evolutionary Biology (4 cr)			
<b>Breadth Courses Subtotal</b>			
<b>Depth Requirements: 18-21 credits</b>			
Course Number/Title	Qtr/Yr	Credits	Substitute Course #, Name, College/University
Biol 326 – Ecology Lab (2 cr)			
Biol 322 – Genetics lab (4 cr)			
<b>Or</b> Biol 324 – Molecular Biology Lab (3 cr)			
Sced 370 – Science & Society (3 cr)			
One of the following: Biol 460, 465, 467 & 468, 482 & 484			
One of the following: Biol 450, 451 & 453, 452, 479			
<b>Depth Courses Subtotal</b>			
<b>Electives: 0-2 credits</b> Additional elective credits can be taken to fulfill university graduation requirements.			
<ul style="list-style-type: none"> <li>• Elective can be any course under Depth Requirements.</li> <li>• Upper division courses under advisement including Sced 481 &amp; 491. (See WWU Bulletin under Biology, Secondary Teaching Emphasis for additional information)</li> </ul>			
Course	Qtr/Yr	Credits	Substitute Course #, Name, College/University
<b>Elective Courses Subtotal</b>			
<b>Basic, Breadth, Depth, Elective Courses Subtotal</b>			

**Major Evaluation for Graduation: 90 credits required to complete this major**

<b>Supporting Course Subtotal</b> (37 credits required)		<b>Qtr/Yr you PLAN TO GRADUATE:</b>
<b>Basic, Breadth, Depth, Elective Subtotal</b> (53 credits required)		
<b>TOTAL CREDITS</b>		

Biology Adviser Signature \_\_\_\_\_

Date \_\_\_\_\_

Biology Chair \_\_\_\_\_

Date \_\_\_\_\_

